H426V1
User manual

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1 Parameter list

Rem.	Parameter	Description	Minimum	Maximum	Default	Unit
	S_ _	Functions about cycle				
	St_	Functions about cycle temperature				
	_t0	final temperature	-55.0	145.0	2.0	°C
1	_td	final temperature differential	0.0	50.0	0.0	K
	Sd_	Functions about cycle timing				
2	Sd0	maximum cycle duration	0	194 4:20:15	2:00	dd hh:mm:ss
	c_ _	Functions about door and light				
	cP_	Door switch and evaporator fan				
	cPH	stop fan when door is open	oFF	_on	_on	/
	cPF	pause cycle timer when door is open	oFF	_on	_on	/
	cPd	delay of fan automatic switch on	0	194 4:20:15	30:00	dd hh:mm:ss
	cI_	Functions about light				
	cIH	switch on the light when the door is open and off when closed	oFF	_on	_on	/
	cIo	switch off the light automatically if it has been switched on from outside	oFF	_on	_on	/
	cId	delay of light automatic switch off	0	194 4:20:15	30	dd hh:mm:ss
	b_ _	Functions about probe calibration				
	b1_	Probe nr. 1				
	b1C	room temperature	-9.0	9.0	0.0	K
	b1A	enable probe	oFF	_on	_on	/
	L_ _	Functions about alarm and stand-by				
	Lt_	Temperature alarm				
3	LtL	low temperature alarm set point	-55.0	145.0	-2.0	°C
4	LtH	high temperature alarm set point	-55.0	145.0	14.0	°C
	Ltd	alarm delay	0	194 4:20:15	30:00	dd hh:mm:ss
	LO_	Door alarm				
	LOH	enable door alarm	oFF	_on	_on	/
	LOd	door alarm delay	0	194 4:20:15	30:00	dd hh:mm:ss
	LOt	temperature alarm minimum delay after door opening	0	194 4:20:15	15:00	dd hh:mm:ss
	Lo_	On / stand-by status				
	Loo	actual status: stand-by or on	oFF	_on	oFF	/
	I_ _	Functions about input-output and machine state (read only)				
	IA_	Analog inputs				
	IA1	room temperature	-55.0	145.0	-55.0	°C
	Id_	Digital input				
	Id4	door closed	oFF	_on	oFF	/
	OS_	Machine status				
	OSn	fan stopped by door opening or manual control	oFF	_on	oFF	/
	OSd	time left to complete the cycle	0	194 4:20:15	0	dd hh:mm:ss
	OA_	Analog output				
	LLA	actual alarm - read only (0 means no alarm)	0	255	0	/
	Od_	Digital output				
5	Od1	fan	oFF	_on	oFF	/
	Od7	light	oFF	_on	oFF	/
	S_ _	Functions about cycle				
	St_	Functions about cycle temperature				
	_t0	final temperature	-55.0	145.0	2.0	°C
1	_td	final temperature differential	0.0	50.0	0.0	K
	Sd_	Functions about cycle timing				
2	Sd0	maximum cycle duration	0	194 4:20:15	2:00	dd hh:mm:ss
	c_ _	Functions about door and light				
	cP_	Door switch and evaporator fan				
	cPH	stop fan when door is open	oFF	_on	_on	/
	cPF	pause cycle timer when door is open	oFF	_on	_on	/
	cPd	delay of fan automatic switch on	0	194 4:20:15	30:00	dd hh:mm:ss
	cI_	Functions about light				
	cIH	switch on the light when the door is open and off when closed	oFF	_on	_on	/
	cIo	switch off the light automatically if it has been switched on from outside	oFF	_on	_on	/
	cId	delay of light automatic switch off	0	194 4:20:15	30	dd hh:mm:ss
	b_ _	Functions about probe calibration				
	b1_	Probe nr. 1				
	b1C	room temperature	-9.0	9.0	0.0	K
	b1A	enable probe	oFF	_on	_on	/
	L_ _	Functions about alarm and stand-by				
	Lt_	Temperature alarm				
3	LtL	low temperature alarm set point	-55.0	145.0	-2.0	°C
4	LtH	high temperature alarm set point	-55.0	145.0	14.0	°C
	Ltd	alarm delay	0	194 4:20:15	30:00	dd hh:mm:ss
	LO_	Door alarm				
	LOH	enable door alarm	oFF	_on	_on	/
	LOd	door alarm delay	0	194 4:20:15	30:00	dd hh:mm:ss
	LOt	temperature alarm minimum delay after door opening	0	194 4:20:15	15:00	dd hh:mm:ss

Rem.	Parameter	Description	Minimum	Maximum	Default	Unit
	Lo_	On / stand-by status				
	Loo	actual status: stand-by or on	oFF	_on	oFF	/
	I_ _	Functions about input-output and machine state (read only)				
	IA_	Analog inputs				
	IA1	room temperature	-55.0	145.0	-55.0	°C
	Id_	Digital input				
	Id4	door closed	oFF	_on	oFF	/
	OS_	Machine status				
	OSn	fan stopped by door opening or manual control	oFF	_on	oFF	/
	OSd	time left to complete the cycle	0	194 4:20:15	0	dd hh:mm:ss
	OA_	Analog output				
	LLA	actual alarm - read only (0 means no alarm)	0	255	0	/
	Od_	Digital output				
5	Od1	fan	oFF	_on	oFF	/
	Od7	light	oFF	_on	oFF	/
	S_ _	Functions about cycle				
	St_	Functions about cycle temperature				
	_t0	final temperature	-55.0	145.0	2.0	°C
1	_td	final temperature differential	0.0	50.0	0.0	K
	Sd_	Functions about cycle timing				
2	Sd0	maximum cycle duration	0	194 4:20:15	2:00	dd hh:mm:ss
	c_ _	Functions about door and light				
	cP_	Door switch and evaporator fan				
	cPH	stop fan when door is open	oFF	_on	_on	/
	cPF	pause cycle timer when door is open	oFF	_on	_on	/
	cPd	delay of fan automatic switch on	0	194 4:20:15	30:00	dd hh:mm:ss
	cI_	Functions about light				
	cIH	switch on the light when the door is open and off when closed	oFF	_on	_on	/
	cIo	switch off the light automatically if it has been switched on from outside	oFF	_on	_on	/
	cId	delay of light automatic switch off	0	194 4:20:15	30	dd hh:mm:ss
	b_ _	Functions about probe calibration				
	b1_	Probe nr. 1				
	b1C	room temperature	-9.0	9.0	0.0	K
	b1A	enable probe	oFF	_on	_on	/
	L_ _	Functions about alarm and stand-by				
	Lt_	Temperature alarm				
3	LtL	low temperature alarm set point	-55.0	145.0	-2.0	°C
4	LtH	high temperature alarm set point	-55.0	145.0	14.0	°C
	Ltd	alarm delay	0	194 4:20:15	30:00	dd hh:mm:ss
	LO_	Door alarm				
	LOH	enable door alarm	oFF	_on	_on	/
	LOd	door alarm delay	0	194 4:20:15	30:00	dd hh:mm:ss
	LOt	temperature alarm minimum delay after door opening	0	194 4:20:15	15:00	dd hh:mm:ss
	Lo_	On / stand-by status				
	Loo	actual status: stand-by or on	oFF	_on	oFF	/
	I_ _	Functions about input-output and machine state (read only)				
	IA_	Analog inputs				
	IA1	room temperature	-55.0	145.0	-55.0	°C
	Id_	Digital input				
	Id4	door closed	oFF	_on	oFF	/
	OS_	Machine status				
	OSn	fan stopped by door opening or manual control	oFF	_on	oFF	/
	OSd	time left to complete the cycle	0	194 4:20:15	0	dd hh:mm:ss
	OA_	Analog output				
	LLA	actual alarm - read only (0 means no alarm)	0	255	0	/
	Od_	Digital output				
5	Od1	fan	oFF	_on	oFF	/
	Od7	light	oFF	_on	oFF	/
	S_ _	Functions about cycle				
	St_	Functions about cycle temperature				
	_t0	final temperature	-55.0	145.0	2.0	°C
1	_td	final temperature differential	0.0	50.0	0.0	K
	Sd_	Functions about cycle timing				
2	Sd0	maximum cycle duration	0	194 4:20:15	2:00	dd hh:mm:ss
	c_ _	Functions about door and light				
	cP_	Door switch and evaporator fan				
	cPH	stop fan when door is open	oFF	_on	_on	/
	cPF	pause cycle timer when door is open	oFF	_on	_on	/
	cPd	delay of fan automatic switch on	0	194 4:20:15	30:00	dd hh:mm:ss
	cI_	Functions about light				
	cIH	switch on the light when the door is open and off when closed	oFF	_on	_on	/
	cIo	switch off the light automatically if it has been switched on from outside	oFF	_on	_on	/
	cId	delay of light automatic switch off	0	194 4:20:15	30	dd hh:mm:ss
	b_ _	Functions about probe calibration				

Rem.	Parameter	Description	Minimum	Maximum	Default	Unit
	b1_	Probe nr. 1				
	b1C	room temperature	-9.0	9.0	0.0	K
	b1A	enable probe	oFF	_on	_on	/
	L_ _	Functions about alarm and stand-by				
	Lt_	Temperature alarm				
3	LtL	low temperature alarm set point	-55.0	145.0	-2.0	°C
4	LtH	high temperature alarm set point	-55.0	145.0	14.0	°C
	Ltd	alarm delay	0	194 4:20:15	30:00	dd hh:mm:ss
	LO_	Door alarm				
	LOH	enable door alarm	oFF	_on	_on	/
	LOd	door alarm delay	0	194 4:20:15	30:00	dd hh:mm:ss
	LOt	temperature alarm minimum delay after door opening	0	194 4:20:15	15:00	dd hh:mm:ss
	Lo_	On / stand-by status				
	Loo	actual status: stand-by or on	oFF	_on	oFF	/
	I_ _	Functions about input-output and machine state (read only)				
	IA_	Analog inputs				
	IA1	room temperature	-55.0	145.0	-55.0	°C
	Id_	Digital input				
	Id4	door closed	oFF	_on	oFF	/
	OS_	Machine status				
	OSn	fan stopped by door opening or manual control	oFF	_on	oFF	/
	OSd	time left to complete the cycle	0	194 4:20:15	0	dd hh:mm:ss
	OA_	Analog output				
	LLA	actual alarm - read only (0 means no alarm)	0	255	0	/
	Od_	Digital output				
5	Od1	fan	oFF	_on	oFF	/
	Od7	light	oFF	_on	oFF	/
	S_ _	Functions about cycle				
	St_	Functions about cycle temperature				
	_t0	final temperature	-55.0	145.0	2.0	°C
1	_td	final temperature differential	0.0	50.0	0.0	K
	Sd_	Functions about cycle timing				
2	Sd0	maximum cycle duration	0	194 4:20:15	2:00	dd hh:mm:ss
	c_ _	Functions about door and light				
	cP_	Door switch and evaporator fan				
	cPH	stop fan when door is open	oFF	_on	_on	/
	cPF	pause cycle timer when door is open	oFF	_on	_on	/
	cPd	delay of fan automatic switch on	0	194 4:20:15	30:00	dd hh:mm:ss
	cI_	Functions about light				
	cIH	switch on the light when the door is open and off when closed	oFF	_on	_on	/
	cIo	switch off the light automatically if it has been switched on from outside	oFF	_on	_on	/
	cId	delay of light automatic switch off	0	194 4:20:15	30	dd hh:mm:ss
	b_ _	Functions about probe calibration				
	b1_	Probe nr. 1				
	b1C	room temperature	-9.0	9.0	0.0	K
	b1A	enable probe	oFF	_on	_on	/
	L_ _	Functions about alarm and stand-by				
	Lt_	Temperature alarm				
3	LtL	low temperature alarm set point	-55.0	145.0	-2.0	°C
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	Ltd	alarm delay	0	194 4:20:15	30:00	dd hh:mm:ss
	LO_	Door alarm				
	LOH	enable door alarm	oFF	_on	_on	/
	LOd	door alarm delay	0	194 4:20:15	30:00	dd hh:mm:ss
	LOt	temperature alarm minimum delay after door opening	0	194 4:20:15	15:00	dd hh:mm:ss
	Lo_	On / stand-by status				
	Loo	actual status: stand-by or on	oFF	_on	oFF	/
	I_ _	Functions about input-output and machine state (read only)				
	IA_	Analog inputs				
	IA1	room temperature	-55.0	145.0	-55.0	°C
	Id_	Digital input				
	Id4	door closed	oFF	_on	oFF	/
	OS_	Machine status				
	OSn	fan stopped by door opening or manual control	oFF	_on	oFF	/
	OSd	time left to complete the cycle	0	194 4:20:15	0	dd hh:mm:ss
	OA_	Analog output				
	LLA	actual alarm - read only (0 means no alarm)	0	255	0	/
	Od_	Digital output				
5	Od1	fan	oFF	_on	oFF	/
	Od7	light	oFF	_on	oFF	/
	S_ _	Functions about cycle				
	St_	Functions about cycle temperature				
	_t0	final temperature	-55.0	145.0	2.0	°C
1	_td	final temperature differential	0.0	50.0	0.0	K

Rem.	Parameter	Description	Minimum	Maximum	Default	Unit
	Sd_	Functions about cycle timing				
2	Sd0	maximum cycle duration	0	194 4:20:15	2:00	dd hh:mm:ss
	c_ _	Functions about door and light				
	cP_	Door switch and evaporator fan				
	cPH	stop fan when door is open	oFF	_on	_on	/
	cPF	pause cycle timer when door is open	oFF	_on	_on	/
	cPd	delay of fan automatic switch on	0	194 4:20:15	30:00	dd hh:mm:ss
	cl_	Functions about light				
	clH	switch on the light when the door is open and off when closed	oFF	_on	_on	/
	clo	switch off the light automatically if it has been switched on from outside	oFF	_on	_on	/
	cld	delay of light automatic switch off	0	194 4:20:15	30	dd hh:mm:ss
	b_ _	Functions about probe calibration				
	b1_	Probe nr. 1				
	b1C	room temperature	-9.0	9.0	0.0	K
	b1A	enable probe	oFF	_on	_on	/
	L_ _	Functions about alarm and stand-by				
	Lt_	Temperature alarm				
3	LtL	low temperature alarm set point	-55.0	145.0	-2.0	°C
4	LtH	high temperature alarm set point	-55.0	145.0	14.0	°C
	Ltd	alarm delay	0	194 4:20:15	30:00	dd hh:mm:ss
	LO_	Door alarm				
	LOH	enable door alarm	oFF	_on	_on	/
	LOd	door alarm delay	0	194 4:20:15	30:00	dd hh:mm:ss
	LOt	temperature alarm minimum delay after door opening	0	194 4:20:15	15:00	dd hh:mm:ss
	Lo_	On / stand-by status				
	Loo	actual status: stand-by or on	oFF	_on	oFF	/
	I_ _	Functions about input-output and machine state (read only)				
	IA_	Analog inputs				
	IA1	room temperature	-55.0	145.0	-55.0	°C
	Id_	Digital input				
	Id4	door closed	oFF	_on	oFF	/
	OS_	Machine status				
	OSn	fan stopped by door opening or manual control	oFF	_on	oFF	/
	OSd	time left to complete the cycle	0	194 4:20:15	0	dd hh:mm:ss
	OA_	Analog output				
	LLA	actual alarm - read only (0 means no alarm)	0	255	0	/
	Od_	Digital output				
5	Od1	fan	oFF	_on	oFF	/
	Od7	light	oFF	_on	oFF	/
	E_ _	Functions about slave preferences				
	Ed_	Functions about network address				
	EdS	slave address for local network communication	1	254	1	/
	EY_	Functions about display				
	EYY	input to show on display: 1=temperature / 2=time left in minutes	1	2	1	/
	P_ _	Functions about master preferences				
	Pd_	Functions about network address				
	PdM	master address for global network communication	0	254	1	/
	PdS	number of slaves connected to this master	1	6	6	/

2 Parameter remarks

Nr.	Remark
1	When differential is 0 the fan does not restart.
2	When duration is 0 there is no time limit otherwise cycle is stopped by temperature or time whichever is first.
3	The low temperature differential is fixed, and alarm status stops at 0.2 °C above the set point.
4	The high temperature differential is fixed, and alarm status stops at 0.2 °C under the set point.
5	The minus sign on display ("-") signals that output is going to start after a delay.

3 Alarm list

Display	Alarm	
A01	low temperature	Low temperature limit has been reached.
A02	high temperature	High temperature limit has been reached.
A03	door open	Time limit for door opening has been reached.
A04	low temperature	Low temperature limit has been reached.

Display	Alarm	
A05	high temperature	High temperature limit has been reached.
A06	door open	Time limit for door opening has been reached.
A07	low temperature	Low temperature limit has been reached.
A08	high temperature	High temperature limit has been reached.
A09	door open	Time limit for door opening has been reached.
A10	low temperature	Low temperature limit has been reached.
A11	high temperature	High temperature limit has been reached.
A12	door open	Time limit for door opening has been reached.
A13	low temperature	Low temperature limit has been reached.
A14	high temperature	High temperature limit has been reached.
A15	door open	Time limit for door opening has been reached.
A16	low temperature	Low temperature limit has been reached.
A17	high temperature	High temperature limit has been reached.
A18	door open	Time limit for door opening has been reached.

4 Slave alarm list

Display	Alarm	
/	none	This instrument has no slave alarm.

5 Button list

Push button		Function
B1	esc - silence	Exit without saving from any menu - alarm buzzer silence.
B2	up	Up navigation in the menu.
B3	on/stand-by - pause	Toggle between on and stand-by - toggle evaporator fan stop.
B4	left - light	Left navigation in the menu - switch the light on and off.
B5	down - defrost	Down navigation in the menu - force immediate defrost.
B6	right - menu - set	Right navigation in the menu - display and modify the set point - enter menu.
B7	light - alarm	Remote button near to the door inside the room: switch on the light, and trigger man-in-room alarm.

6 Led list

Led		Function
L1	fan 1	On during fan run - blinking slowly during the cycle and when _td is not 0.
L2	fan 2	On during fan run - blinking slowly during the cycle and when _td is not 0.
L3	fan 3	On during fan run - blinking slowly during the cycle and when _td is not 0.
L4	fan 4	On during fan run - blinking slowly during the cycle and when _td is not 0.
L5	fan 5	On during fan run - blinking slowly during the cycle and when _td is not 0.
L6	fan 6	On during fan run - blinking slowly during the cycle and when _td is not 0.
L7	light	On when lighting is on - blinking slowly during deactivation delay.

7 Soft command list

Soft command	Function

8 How to ...

How to ...	Function
Switch between on and stand-by.	Keep pressed B3 button, to activate and deactivate stand-by. In stand-by every output is disabled except light, leds from L1 to L6 blink, timers continue to count.

How to ...	Function
Program the menu.	Keep pressed B6 to enter the menu. Navigate up and down with B2 and B5. Select the submenu by B6. Change the parameter by B2 and B5, press B6 to confirm, or B4 to go back without saving. The changes will have effect after the exit from programming pressing B4 repeatedly. Press B1 to exit immediately without saving any parameter.
Show or change temperature set.	Press shortly B6 - the display shows the current set point - change it by B2 and B5, and confirm it by B6. As alternative, enter the menu program as explained above, modify the parameter _t0, then confirm it.
Start, pause, or restart the cycle.	Press shortly the B3 button to start, pause, or restart the cycle. When the evaporator fans are stopped, the display blinks.
Abort the cycle.	Press shortly the B1 button to terminate the cycle.

9 Shortcut list

Buttons to press	Shortcut description - keep pressed 5 seconds
/	This instrument has no further shortcuts.

10 Led and push button location